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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/536,347	03/27/2000	Andrew D. Bailey III	LAM1P126/P0562	3591		
22434	7590 12/18/2002					
BEYER WEAVER & THOMAS LLP			EXAM	EXAMINER		
P.O. BOX 778 BERKELEY, CA 94704-0778			ALEJANDRO MULERO, LUZ L			
			ART UNIT	PAPER NUMBER		
			1763	15		
			DATE MAILED: 12/18/2002			

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No. Applicant(s)		Applicant(s)		
		09/536,347		BAILEY, ANDREW D.		
		Examin r		Art Unit		
		Luz L. Alejandro		1763		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover	sheet with the c	orrespondence address		
THE - Exte after - If the - If NC - Failt - Any	IORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reply of period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, howe within the statutory min vill apply and will expire s cause the application to	iver, may a reply be tim imum of thirty (30) days SIX (6) MONTHS from become ABANDONED	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).		
1)⊠	Responsive to communication(s) filed on 20 N	November 2002 .				
2a) <u></u> ☐	This action is FINAL . 2b)⊠ Thi	is action is non-fi	nal.			
3) <u></u>	Since this application is in condition for alloward closed in accordance with the practice under					
	ion of Claims Claim(s), 2.7.9.18 and 26.39 is/are pending in	the application				
4)[2]	 4)⊠ Claim(s) 2-7,9-18 and 26-29 is/are pending in the application. 4a) Of the above claim(s) 17 and 18 is/are withdrawn from consideration. 					
5)[7]	Claim(s) is/are allowed.	urawn nom consi	ueration.			
·	Claim(s) <u>2-7,9-16 and 26-29</u> is/are rejected.					
	Claim(s) is/are objected to.					
	Claim(s) are subject to restriction and/or	r election requirer	ment			
	ion Papers	Ciccion require	nont.			
9)□	The specification is objected to by the Examiner	·.				
10)	The drawing(s) filed on is/are: a)□ accep	ted or b)□ objecte	ed to by the Exam	niner.		
	Applicant may not request that any objection to the	drawing(s) be held	d in abeyance. Se	ee 37 CFR 1.85(a).		
11) 🗌	The proposed drawing correction filed on	is: a)□ approve	d b)□ disappro	ved by the Examiner.		
If approved, corrected drawings are required in reply to this Office action.						
12)	The oath or declaration is objected to by the Exa	aminer.				
Priority (under 35 U.S.C. §§ 119 and 120					
13)□	Acknowledgment is made of a claim for foreign	priority under 35	U.S.C. § 119(a)	-(d) or (f).		
a)[☐ All b)☐ Some * c)☐ None of:					
	 Certified copies of the priority documents have been received. 					
	2. Certified copies of the priority documents have been received in Application No					
* 5	3. Copies of the certified copies of the prior application from the International Bur See the attached detailed Office action for a list of the control of the certified copies of the prior of the prio	eau (PCT Rule 1	7.2(a)).	_		
	Acknowledgment is made of a claim for domestic					
a) The translation of the foreign language proving the foreign language pr	visional applicatio	on has been rece	eived.		
Attachmen		o priority under 30	J J.J.C. 33 120	anu/UL 141.		
1) Notic 2) Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🔲		(PTO-413) Paper No(s) atent Application (PTO-152)		

DETAILED ACTION

Continued Prosecution Application

The request filed on 11-20-02 for a Continued Prosecution Application (CPA) under 37 CFR 1.53(d) based on parent Application No. 09/536,347 is acceptable and a CPA has been established. An action on the CPA follows.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 3-7, 9-11, 13, and 26-28 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 3 and claim 26 recite the limitations "said first end of said process chamber" and "said chuck" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a print d publication in this or a foreign country or in public use or on sale in this country, more than on year prior to the date of application for patent in the United States.

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Claims 2, 12, 14-16 and 29 are rejected under 35 U.S.C. 102(b) as being anticipated by Dandl, U.S. Patent 5,370,765.

Dandl shows the invention as claimed including a plasma processing apparatus 10 for processing a substrate 56, comprising: a process chamber, comprising: a wall defining part of the process chamber; a device for igniting and sustaining within the plasma chamber a plasma for said processing; and a plasma confinement arrangement, comprising a magnetic array having a plurality of magnetic elements that are disposed within the processing chamber (62, for example), said plurality of magnets being configured to produce a magnetic field, and wherein the plurality of magnets are disposed around and extend along said plasma region and are within said plasma region (see fig. 1 and col. 7-line 54 to col. 13-line 32).

Regarding claim 12, note that the magnets are permanent magnets (see col. 13-lines 9-14). Concerning claims 14-16, note that the magnets can be moved or rotated and also note from Fig. 1 that the magnets are contained within sleeves (see col. 13-lines 20-32). With respect to claims 29, note that the plasma is able to fill the entire process chamber in which the magnetic elements are disposed.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 3-7, 9-11, 13 and 26-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Dandl, U.S. Patent 5,370,765.

Dandl is applied as above and further shows that the plurality of magnetic elements extend substantially from the substrate holder to the top of the chamber and are disposed around and outside the periphery of the substrate. Dandl does not expressly disclose that the substrate holder comprises a chuck, but the examiner takes official notice that chucks are well known in the art for securely holding a wafer to the substrate holder during processing.

Concerning claim 4, note that the magnetic field has an azimuthally symmetrical radial gradient (see col. 13-lines 1-8). With respect to claims 5-6, note that many of the magnetic elements of fig. 1 have a physical axis which extends along the plasma region and a magnetic axis which is perpendicular to the physical axis. Regarding claim 7, note that the magnets are permanent magnets (see col. 13-lines 9-14). Furthermore, concerning claims 9-11 and 13, note that the magnets can be moved or rotated and also note from Fig. 1 that the magnets are contained within sleeves (see col. 13-lines 20-32). With respect to claim 28, the magnetic field lines in Fig. 1 show a minimum magnetic field at the substrate.

Response to Arguments

Applicant's arguments with respect to claims 2-7, 9-16, and 26-29 have been considered but are most in view of the new ground(s) of rejection.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Luz L. Alejandro whose telephone number is 703-305-4545. The examiner can normally be reached on Monday to Thursday from 7:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory L. Mills can be reached on 703-308-1633. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

Luz L. Alejandro Patent Examiner Art Unit 1763

December 15, 2002